Women with Psoriasis – Distinct Unmet Needs of Women with Psoriasis, Including Women of Childbearing Age

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# Patients with PSO Have a High Burden of Disease, Leading to Reduced Quality of Life

In comparison to healthy controls, patients with PSO have significantly:<sup>1</sup>

Stronger feelings of loneliness ower self-esteem Higher anxiety and isolation  $(p=0.032)^{a}$ (p<0.0001)<sup>c</sup>  $(p=0.033)^{b}$ The social stigma can be devastating for patients with PSO 76% 74% 48% 26% 20% 84% Reported feeling like Were asked to leave Feel being stared at Fear passing Prefer not to be Reported incidents in PSO on to their which others made a seen in public an outcast public pools children conscious effort not during a flare to touch them

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<sup>a</sup>Assessed by the Hospital Anxiety and Depression Scale-anxiety subscale. <sup>b</sup>Assessed by the UCLA loneliness scale. <sup>c</sup>Assessed by the Rosenberg's Self-esteem Scale.

## **Patients' Burden of Disease is Cumulative Over Time**

Hypothetical impact of disease condition over a patient's life course<sup>1</sup>



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Core components of the CLCI score include life-long effects of physical comorbidities, stigma, psychological comorbidities, and the economic and social consequences, which have the potential to place each patient with PSO at risk of not living their life to their full potential. CLCI: cumulative life course impairment.

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## **Quality of Life is Impacted by Many Factors**



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1. Griffiths CEM et al. Lancet. 2015;386:541–551. 2. Kim GE et al. Pediatr Dermatol. 2015;32(5):656–662. 3. Meeuwis K et al. Br J Dermatol. 2011;164(6):1247–1255. 4. Hawro M et al. J Am Acad Dermatol. 2017;76(4):648–654.e2.

## **Prevalence of PSO in Women**



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Female mean age of PSO onset: 28 years<sup>1</sup> **16–22 years 55–60 years** Bimodal onset at:<sup>2</sup> Onset during peak reproductive years (18–45 years) presents specific challenges for treatment<sup>3</sup> Associated with 2 different subtypes based on genetic and immunological features:<sup>2</sup>

Early onset, before the age of 40 years 75% of cases

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5% of cases

Late onset, after the age of 40 years

25% of cases

PSO occurs equally in males and females;<sup>2</sup> however, females are underrepresented in PSO clinical trials<sup>4,5</sup>

#### 33% of participants in PSO clinical trials are female<sup>4</sup>

1. Tauscher AE et al. J Cutan Med Surg. 2002;6(6):561–570. 2. Griffiths CEM et al. Lancet. 2021;397(10281):1301–1315. 3. Gottlieb AB et al. Int J Womens Dermatol. 2019;5(3):141–150. 4. Ding J et al. J Am Acad Dermatol. 2022;87(6):1386–1389. 5. Warren RB et al. Br J Dermatol. 2021;184(1):50–59.

# Gender Differences in Clinical Expression, Severity and Patient-Reported Outcomes



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# **Psychological Impact of PSO in Men and Women**







<sup>a</sup>Data from World Psoriasis Happiness Report 2017. Happiness data collected via the 'PsoHappy' app, using validated survey models that explore mental well-being aspects such as stress, social support, self-esteem and loneliness, as well as original methodologies and open-ended questions that captured the experiences and motions of respondents. Life satisfaction was assessed via the Cantril Ladder.

 Gottlieb AB et al. Int J Womens Dermatol. 2019;5(3):141–150. 2. LEO Innovation Lab and The Happiness Research Institute. World Psoriasis Happiness Report 2017. Available at: https://docs.wixstatic.com/ugd/928487\_d405a5c58b8e42ae8e2a84112fada89a.pdf?index=tr ue. Accessed on April 2024. 3. González-Cantero Á et al. Int J Womens Dermatol. 2023;9(4):e112. 4. Sampogna F et al. Acta Derm Venereol. 2012;92(3):299–303.

# Women Experience Lower Quality of Life Despite Lower Clinical Symptoms<sup>1</sup>



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Observational study. Data for PSO patients taken from the 2010 annual report of the Swedish Psoriasis Register for systemic treatment, which also included non-biologic treatment.



# **Comorbidities are Common in Women with PSO and Increase with Disease Severity**



KEY MESSAGE Women with PSO had higher odds of all investigated comorbidities compared with women without PSO, with an increase in odds from mild to severe PSO.<sup>a</sup>



77,143 women met the criteria for PSO. 2,508,341 women were considered women without PSO. <sup>a</sup>Except for RA, axSpA and CD, where women with moderate PSO had higher ORs for disease. Error bars are 95% confidence intervals. Mild PSO: antipsoriatic topicals, phototherapy, or no treatment. Moderate PSO: nonbiologic systemic antipsoriatic drugs (acitretin, ciclosporin, methotrexate) with the indication "against PSO". Severe PSO: biologic antipsoriatics (adalimumab, brodalumab, certolizumab pegol, etanercept, guselkumab, infliximab, ixekizumab, secukinumab, ustekinumab) administered at a department of dermatology. Psoriatic arthritis is left out of this figure due to high and outlying OR.

Adapted from Johansen CB et al. Int J Womens Derm. 2021;7:246–258

# **Psoriatic Arthritis in Patients with PSO**



#### Presentation and clinical manifestation of psoriatic arthritis in female and male patients



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Cross-sectional study of gender differences in patient-reported outcomes in UPI participants, n=253 (138 women).

Quiero R et al. Clin Dev Immunol. 2013;482691. 9. Johansen CB et al. Int J Womens Dermatol. 2021;7(3):246–258. 10. Braaten TJ et al. J Psoriasis Psoriatic Arthritis. 2019;4(4):192–197.

# **Lower Biologic Treatment Satisfaction in Women**



#### Treatment satisfaction corresponds with adherence, patients' preference and health-related quality of life<sup>1</sup>





 van der Schoot LS et al. J Eur Acad Dermatol Venereol. 2019;33(10):1913–1920.
 González-Cantero Á et al. Int J Womens Dermatol. 2023;9(4):e112. 3. Guillet C et al. Int J Womens Dermatol. 2022;8:e010. 4. Di Cesare A et al. J Eur Acad Dermatol Venereol.
 2019;33:e362–e364. 5. Hernández-Fernández CP et al. Acta Derm Venereol. 2021;101:adv00354. 6. Verardi F et al. J Eur Acad Dermatol Venereol. 2023;00:1–13. doi: 10.1111/jdv.19730.

## **Different Perceptions from Patients and HCPs about Treating Women with PSO**

Symptoms and Diagnosis       Initial symptoms seen as non-serious and ignored <sup>1</sup> S         Lower acceptance of their condition than men <sup>2,3</sup> Lower self-esteem correlated with severity of psoriatic symptoms <sup>3</sup> S	Slow referral to dermatology <sup>1,9</sup>
	Limited discussion of pregnancy <sup>10,11</sup>
TreatmentConcerns about treatment affecting the ability to conceive/impact on the fetus4,5M pBalancing concerns that the treatment will harm the baby vs the concerns that the disease could worsen by stopping or changing treatment before or during pregnancy or during breastfeeding6•	<ul> <li>Most dermatologists feel uncomfortable treating pregnant patients with biologics:<sup>10,12</sup></li> <li><b>57%</b> consider their knowledge on the impact of treatments on pregnancy suboptimal</li> <li><b>54%</b> reported being comfortable with prescribing anti-TNFs for women of childbearing age</li> </ul>
MonitoringFlare ups in highly visible areas add to the greater psychological burden for women <sup>7,8</sup> M	Most dermatologists are unfamiliar with recommendations for treating women of childbearing age <sup>13</sup>
<b>Long-term</b> High stress, loneliness and stigma lead to lower overall happiness <sup>5</sup>	_

Inspired by **patients.** Driven by **science.**  Mechili EA et al. Popul Med. 2019;1:4. 2. Jankowiak B et al. Clin Cosmet Investig Dermatol. 2021;14:1139–1147. 3. Kowalewska B et al. Dermatol Ther (Heidelb). 2022;12:529–543.
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## So What About Women of Childbearing Age?

**PSOLAR**<sup>1</sup> 12,090 patients with moderate-to-severe PSO<sup>a</sup>

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dp. <sup>d</sup>PsoBest, n=4896; Swiss Dermatology Network of Targeted Therapies (SDNTT), n=450. <sup>e</sup>As published in 2021. Multinational survey across 11 European countries completed by female members of patient associations/panels aged 18-45 years, including 236 women with PSO.

Derm Venereol. 2021;101:adv00354. 3. Maul JT et al. Br J Dermatol. 2021;185(6):1160-1168. 4. Chen T-C et al. JAMA Dermatol. 2023;159(7):736-744. 5. Gottlieb AB et al. Int J Womens Dermatol. 2019:5(3):141–150. 6. McBride SR et al. Int J Womens Dermatol. 2021:7(5):697–707.

# Impact of PSO on Women of Childbearing Age (1/2)

**21%** Reported that they had not achieved their desired career due to PSO and/or PsA





Reported a moderate or low level of support from healthcare professionals

55%

Had a moderate or low level of support from HCPs in managing their condition during pregnancy<sup>a</sup>



Multinational survey across 11 European countries completed by female members of patient associations/panels aged 18–45 years, including 232 women with PSO. <sup>a</sup>Reported percentage is of the women who were pregnant or who had given birth during the last five years.

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# **Impact of PSO on Women of Childbearing Age (2/2)**



#### Health and wellbeing:

Women of childbearing age with PSO have worse general health and higher levels of anxiety/depression compared to same-age men despite lower PASI

#### QoL:

Women of childbearing age with PSO have more QoL impairments compared to same-age men and older women Specific needs reported by women of childbearing age with PSO:

"to be able to lead a normal working life"

"to be able to have a normal sex life"

"to regain control of the disease"

"to be less burdened in your partnership"

"to be comfortable showing yourself more in public"

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### **Abbreviations**

	Description
AOR	Adjusted odds ratio
axSpA	Axial spondyloarthritis
BSA	Body surface area
CD	Crohn's disease
CLCI	Cumulative Life Course Impairment
DLQI	Dermatology Life Quality Index
НСР	Healthcare professional
OR	Odds ratio
PASI	Psoriasis Area and Severity Index
PRO	Patient-reported outcome
PsA	Psoriatic arthritis
PSO	Psoriasis
QoL	Quality of life
RA	Rheumatoid arthritis
SDNTT	Swiss Dermatology Network of Targeted Therapies
SF-36	36-Item Short Form Health Survey
TNF	Tumor necrosis factor
TRAE	Treatment-related adverse event

